

INTERNATIONAL SEARCH REPORT

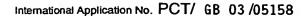
(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P33779WO/TF	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.		
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)	
PCT/GB 03/05158	27/11/2003	29/11/2002	
Applicant MEDICAL RESEARCH COUNCIL		-	
This International Search Report has bee according to Article 18. A copy is being to	en prepared by this international Searching Aut ansmitted to the international Bureau.	nority and is transmitted to the applicant	
	s of a total of 5 sheets. y a copy of each prior art document cited in this	report.	
Basis of the report	international approximation and the base	sia of the international analysis in the	
	international search was carried out on the bas less otherwise indicated under this item.	ы от те инетавоны аррисацоп и те	
the international search w	vas carried out on the basis of a translation of t	ne international application furnished to this	
		ternational application, the international search	
	onal application in written form.		
filed together with the inte	ernational application in computer readable form	n.	
furnished subsequently to	this Authority in written form.		
furnished subsequently to	this Authority in computer readble form.		
	bsequently furnished written sequence listing das filed has been furnished.	oes not go beyond the disclosure in the	
the statement that the infe	ormation recorded in computer readable form is	s identical to the written sequence listing has been	
2. X Certain claims were fou	ind unsearchable (See Box I).		
3. Unity of invention is lac	king (see Box II).		
4. With regard to the title,			
the text is approved as su	ubmitted by the applicant.		
X the text has been establis	shed by this Authority to read as follows:		
STRUCTURE OF A COMPLEX	K OF RETINOBLASTOMA PROTEIN	BOUND TO E2F, AND USES THEREOF	
5. With regard to the abstract,			
X the text is approved as su	ubmitted by the applicant.		
the text has been establis	shed, according to Rule 38.2(b), by this Authorite date of mailing of this international search rep		
6. The figure of the drawings to be pub.	lished with the abstract is Figure No.	la	
as suggested by the appl	icant.	None of the figures.	
because the applicant fail	led to suggest a figure.		
because this figure better	characterizes the invention.		

		FUI	03/03138
A. CLASSI IPC 7	CO7K14/47		
According to	o International Patent Classification (IPC) or to both national classifi	cation and IPC	
B. FIELDS	SEARCHED		
	ocumentation searched (classification system followed by classification ${\tt C07K}$	lion symbols)	
Documental	tion searched other than minimum documentation to the extent that	such documents are included in the fi	elds searched
	lata base consulted during the international search (name of data b , EPO-Internal, MEDLINE	ase and, where practical, search term	s used)
B10313	, Ero-internar, Medeine		
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the re	elevant passages	Relevant to claim No.
Υ	LEE JIE-OH ET AL: "Structure of retinoblastoma tumour-suppressor domain bound to a peptide from H	pocket	3-39,45
	NATURE (LONDON), vol. 391, no. 6670,		
	26 February 1998 (1998-02-26), p 859-865, XP002272473 ISSN: 0028-0836	ages	
	the whole document		
Y	HELIN K ET AL: "A CDNA ENCODING PRB-BINDING PROTEIN WITH PROPERT TRANSCRIPTION FACTOR E2F" CELL, CELL PRESS, CAMBRIDGE, NA,	IES OF THE US,	3-39,45
	vol. 70, no. 2, 24 July 1992 (19 pages 337-350, XP000872846 ISSN: 0092-8674 the whole document	92-07-24),	
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		-/··································	
X Furt	her documents are listed in the continuation of box C.	Patent family members are	listed in annex.
° Special ca	ategories of cited documents:	"T" later document published after th	
"A" document defining the general state of the art which is not considered to be of particular relevance		or priority date and not in conflicted to understand the principle invention	e or theory underlying the
filing date "L" document which may throw doubts on priority claim(s) or which is alted to extend the publication date of prother		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention	
citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means		cannot be considered to involve document is combined with one ments, such combination being	e an inventive step when the e or more other such docu-
"P" document published prior to the international filing date but		in the art. *&' document member of the same patent family	
Date of the	actual completion of the international search	Date of mailing of the internation	nal search report
1	4 April 2004	22/04/2004	
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2		Authorized officer	
NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Wimmer, G	

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Category °	TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
egory *	Cuanon or occurrent, with incucation, where appropriate, of the relevant passages	Helevani to claim No.
, X	DATABASE PDB 'Online! RCSB; 7 January 2003 (2003-01-07) LEE CHANGWOOK ET AL: "Structure of rb tumor suppressor bound to the transactivation domain of e2f-2" retrieved from PDB Database accession no. 1n4m XP002272474 the whole document & LEE CHANGWOOK ET AL: "Structural basis for the recognition of the E2F transactivation domain by the retinoblastoma tumor suppressor." GENES & DEVELOPMENT. UNITED STATES 15 DEC 2002, vol. 16, no. 24, 15 December 2002 (2002-12-15), pages 3199-3212, ISSN: 0890-9369	3-39,45
, X	DATABASE PDB 'Online! RCSB; 6 March 2003 (2003-03-06) XIAO ET AL: "Crystal Structure Of The Retinoblastoma Tumour Suppressor Protein Bound To E2F Peptide" retrieved from PDB Database accession no. 109k XP002272475 abstract & XIAO ET AL.: "Crystal Structure of the Retinoblastoma Tumor" PROC.NATL.ACAD.SCI., vol. 100, no. 5, 21 February 2003 (2003-02-21), pages 2363-2368, USA	3-39,45





Continuation of Box I.2

Claims Nos.: 40-44

Present claims 40-44 relate to compounds defined by reference to a desirable characteristic or property, namely that they modulate the interaction between pRb and E2F, and that they may be identified by one of the claimed in silico sceening or modeling methods.

The claims cover all compounds having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for no such compounds. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the compounds by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, no search has been carried out for these claims.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.





Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)	
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:		
1. χ	Claims Nos.: 1 2 46 because they relate to subject matter not required to be searched by this Authority, namely:	
	Rule 39.1(v) PCT - Presentation of information	
Γ V T	40-44	
2^_	because they relate to parts of the International Application that do not comply with the prescribed requirements to such	
	an extent that no meaningful International Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210	
	• 1	
з. 🗌	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)	
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:	
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.	
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:	
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
Hemari	the additional search fees were accompanied by the applicant's protest.	
	No protest accompanied the payment of additional search fees.	